USER MANUAL

DSS-16+

VERSION 7.0

D-Link®

WIRED

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Package Contents

- D-Link DSS-16+ 16-port Switch
- Manual and Warranty on CD
- Four (4) Rubber Feet
- Rack Mount Kit
- Power Adapter

Setup

The setup of the DSS-16+ can be performed using the following steps:

- The power outlet should be within 1.82 meters (6 feet) of the Switch.
- Do not cover the ventilation holes on the sides of the Switch, and make sure there is adequate ventilation around it.
- Do not place heavy objects on the switch.

Introduction

The D-Link® DSS-16+ unmanaged switch with (16) 10/100BASE-TX ports is a solution for the small business looking to expand network connectivity at an affordable price. The D-Link Express EtherNetwork® line of products combine ease of use, with unsurpassed performance for an exceptional value.

Ease of Use
The DSS-16+ is truly a Plug-&-Play switch, with features like:

- Auto Speed Sensing - The Switch senses whether a network device is running at 10Mbps or 100Mbps and automatically adjusts for optimal performance.

- Auto Negotiation (Full or Half Duplex) - Whether you are running at Half- or in Full-Duplex, the Switch automatically negotiates and runs the highest supported transmission rate.

- Auto MDI/MDIX Crossover - All ports support auto-negotiating MDI/MDIX detection, which eliminates the need for crossover cables or uplink ports. Every port can be connected to another switch or PC Station.

The DSS-16+ is the perfect choice for Plug-&-Play support for 10BASE-T and 100BASE-TX networks.

Wire-speed Performance
The DSS-16+ features a non-blocking wire-speed architecture, with a 3.2Gbps switching capacity, for maximum data throughput. The DSS-16+ also features an integrated universal power supply, and per port diagnostics LEDs that make it easy to "spot check" for problems. With wire-speed filltering and Store-and-Forward switching, the DSS-16+ maximizes network performance while minimizing the propagation of bad network packets.

Quality of Service
The DSS-16+ supports 802.1p Quality of Service (QoS). QoS assists in the prompt delivery of time sensitive data such as voice, video, and gaming traffic. When frames enter the switch with 802.1p priority tags, they are automatically placed in one of two built-in hardware queues. Frames with higher priority tags are then passed through the switch more efficiently, helping eliminate jitter and lag in VoIP and multimedia traffic.

Exceptional Value
Each DSS-16+ is backed by a 3-Year warranty and comes standard with free 24/7 tech support*. By combining ease of use, unsurpassed 10/100BASE-TX switching performance, and world-class support, the DSS-16+ raises the price-performance bar for unmanaged Layer 2 switching.

* Available in USA only

Fast Ethernet Technology
The growing importance of LANs and the increasing complexity of desktop computing applications are fueling the need for high performance networks. 100BASE-TX (Fast Ethernet) provides a cost-effective and high-performance solution for small workgroups, SMBs (Small to Medium Businesses), and any network supporting bandwidth-intensive applications. Fast Ethernet technology operates at 10 times the speed of traditional Ethernet, offering maximum performance and enhanced capability for existing Ethernet-based networks.

100Mbps Fast Ethernet is a standard specified by the IEEE 802.3 LAN committee. It is an extension of the 10Mbps Ethernet standard with the ability to transmit and receive data at 100Mbps, while maintaining the CSMA/CD Ethernet protocol. Since the 100Mbps Fast Ethernet is compatible with all other 10Mbps Ethernet environments, it provides a straightforward upgrade and takes advantage of the existing investment in hardware, software, and personnel training.

Switching Technology
Switching is a cost-effective way of increasing the total network capacity available to users on a LAN. If an Ethernet network begins to display symptoms of congestion, low throughput, slow response times, and high rates of collision, installing a switch to a network can preserve much or all of the existing network's cabling and workstation interface card infrastructure, while still greatly enhancing the throughput for users. A switch is a viable solution even if demanding applications, such as multimedia production and video conferencing, are on the horizon. The most promising techniques, as well as the best return on investment, could well consist of installing the right mixture of Ethernet switches.

A switch increases capacity and decreases network loading by dividing a local area network into different LAN segments. Dividing a LAN into multiple segments is one of the most common ways of increasing available bandwidth. If segmented correctly, most network traffic will remain within a single segment, enjoying the full-line speed bandwidth of that segment.

Switches provide full-line speed and dedicated bandwidth for all connections. This is in contrast to hubs, which use the traditional shared networking topology, where the connected nodes contend for the same network bandwidth. When two switching nodes are communicating, they are connected with a dedicated channel between them, so there is no contention for network bandwidth with other nodes. As a result, the switch reduces considerably, the likelihood of traffic congestion.

For Ethernet networks, a switch is an effective way of eliminating the problem of chaining hubs beyond the “two-repeater limit.” A switch can be used to split parts of the network into different collision domains, making it possible to expand your Ethernet network beyond the 100-meter network diameter limit for 100BASE-TX networks. Switches supporting both 10Mbps Ethernet and 100Mbps Fast Ethernet are also ideal for bridging between existing 10Mbps networks and newer 100Mbps networks.

Switching LAN technology is a marked improvement over the previous generation of network hubs and bridges, which were characterized by higher latencies. Routers have also been used to segment local area networks, but the cost of a router, the setup and maintenance required, make routers relatively impractical. Today switches are an ideal solution to most kinds of local area network congestion problems.

IEEE802.1P and QoS
The DSS-16+ switch supports 802.1p priority queuing Quality of Service. The implementation of QoS (Quality of Service) and benefits of using 802.1p priority queuing are described here.

Advantages of QoS
QoS is an implementation of the IEEE 802.1p standard that allows network administrators a method of reserving bandwidth for important functions that require a large bandwidth or have a high priority, such as VoIP (voice-over Internet Protocol), web browsing applications, file server applications or video conferencing. Not only can a larger bandwidth be created, but other less critical traffic can be limited, so bandwidth can be saved. The switch has separate hardware queues on every physical port to which packets from various applications are mapped to and assigned a priority.

Mapping QoS on the Switch
In order to implement QoS, the switch will examine the header of a packet to see if it has the proper identifying tag tagged. Then the switch forwards these tagged packets to designated queues on the switch where they will be emptied, based on priority.

“The DUT supports strict mode for 802.1p QoS. An untagged packet will follow priority 0 to work (i.e. class 0).”

Understanding QoS
The switch has two priority queues labeled 1 (higher queue), and 0 (lower queue). The eight priority tags, specified in IEEE 802.1p are mapped to the Switch’s priority tags as follows:

Priority 0 is assigned to the Switch’s Q0 queue.
Priority 1 is assigned to the Switch’s Q0 queue.
Priority 2 is assigned to the Switch’s Q0 queue.
Priority 3 is assigned to the Switch’s Q0 queue.
Priority 4 is assigned to the Switch’s Q1 queue.
Priority 5 is assigned to the Switch’s Q1 queue.
Priority 6 is assigned to the Switch’s Q1 queue.
Priority 7 is assigned to the Switch’s Q1 queue.

The switch uses strict priority for Scheduling. In strict priority-based scheduling, any packets residing in the higher priority queues are transmitted first.

Features

The DSS-16+ is designed for easy installation and high performance in an environment where traffic on the network and the number of users increase continuously.

- 16-port 10/100BASE-TX Ethernet Switch with RJ-45 connectors
- Supports Auto-negotiation of speed and duplex modes for each port
- Supports Auto-MDI/MDI-X for each port
- Wire speed reception and transmission
- Store-and-Forward switching method
- Integrated address Look-Up Engine, supports 8K absolute MAC addresses
- 802.1p Priority Queuing for mission critical applications
- Front-panel diagnostic LEDs
- IEEE 802.3x flow control for full-duplex
- Back pressure flow control for half-duplex

Hardware Overview
Front Panel (LEDs)

Power:
This indicator lights green when the switch is receiving power; otherwise, it is off.

Link / Act (Link/Activity):
This indicator lights on when the port is connected to a Fast Ethernet or Ethernet device; if the light is blinking, it indicates that data is being transmitted or received.

FDX / Col (Full-duplex/Collision):
This LED indicator lights green when a respective port is in full duplex (FDX) operation mode. Otherwise, it is blinking when collisions are occurring on the respective port in half duplex operation mode.

100Mbps:
This LED indicator lights green when the port is connected to a 100Mbps Fast Ethernet station. Otherwise, the LED is off when the port is connected to a 10Mbps Ethernet device.

Front Panel (Connections)

Auto MDI/MDI-X Ports (1-16):
All ports support automatic MDI/MDI-X crossover detection. The AutoMDI/MDI-X function makes it simple to connect to the switch—just plug either a Crossover or Straight-Through CAT5 cable into any port.

AC Power Jack (on back):
Power is supplied through an external AC power adapter. Check the technical specification section for information about the AC power input voltage.

Since the DSS-16+ does not require a power button, plugging its power adapter into a power outlet will immediately power it on.

Unpacking and Setup

This chapter provides unpacking and setup information for the DSS-16+. Unpacking Open the shipping carton for the Switch and carefully unpack its contents. The carton should contain the following items:

- One DSS-16+ 16-port 10/100Mbps Fast Ethernet Switch
- One AC power cord, suitable for your area's electrical power connections
- Four rubber feet to be used for shock cushioning
- Screws and two mounting brackets
- This User's Guide

If any item is found missing or damaged, please contact your local reseller for replacement.

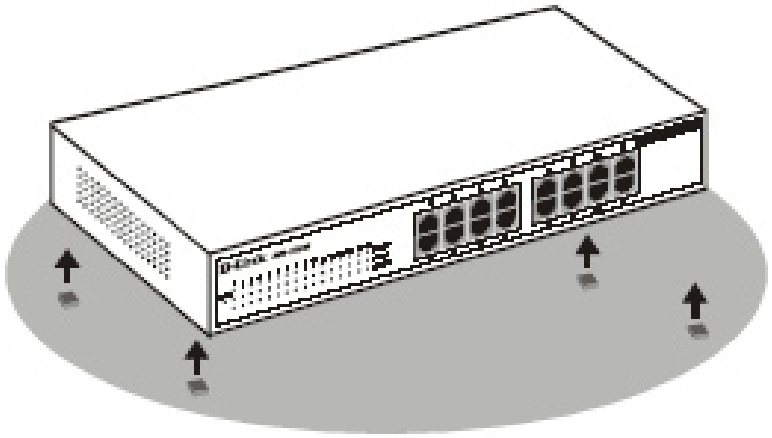
Setup

Please consider the following when setting up the Switch:

- The surface must support at least 5 kg (11.02 lbs).
- The power outlet should be within 1.42 meters (6 feet) of the device.
- Visually inspect the power cord and see that it is secured fully to the AC power connector.
- Make sure that there is proper heat dissipation from and adequate ventilation around the Switch. Do not place heavy objects on the Switch.

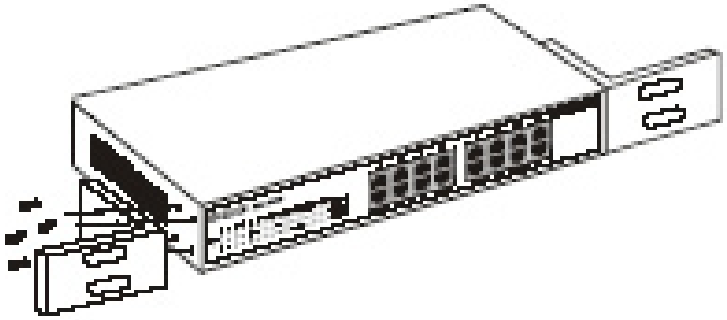
Desktop Installation

When installing the Switch on a desktop, the rubber feet included with the device must be attached first. Attach these cushioning feet on the bottom at each corner of the device. Allow enough ventilation space between the device and the objects around it.

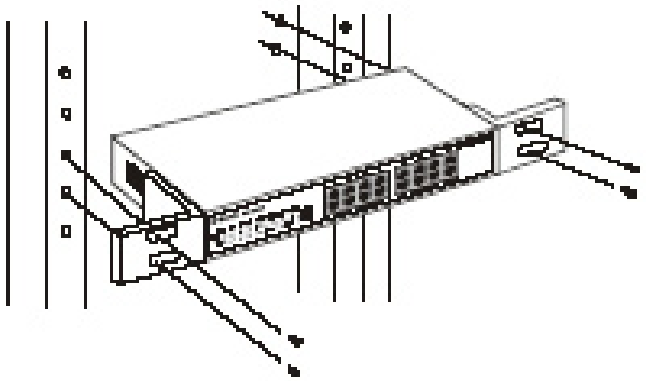


Rack Mounting

The DSS-16+ can be mounted in an EIA standard-size, 19-inch rack, which can be placed in a wiring closet with other equipment. Attach the mounting brackets at the switch's front panel (one on each side), and secure them with the provided screws.

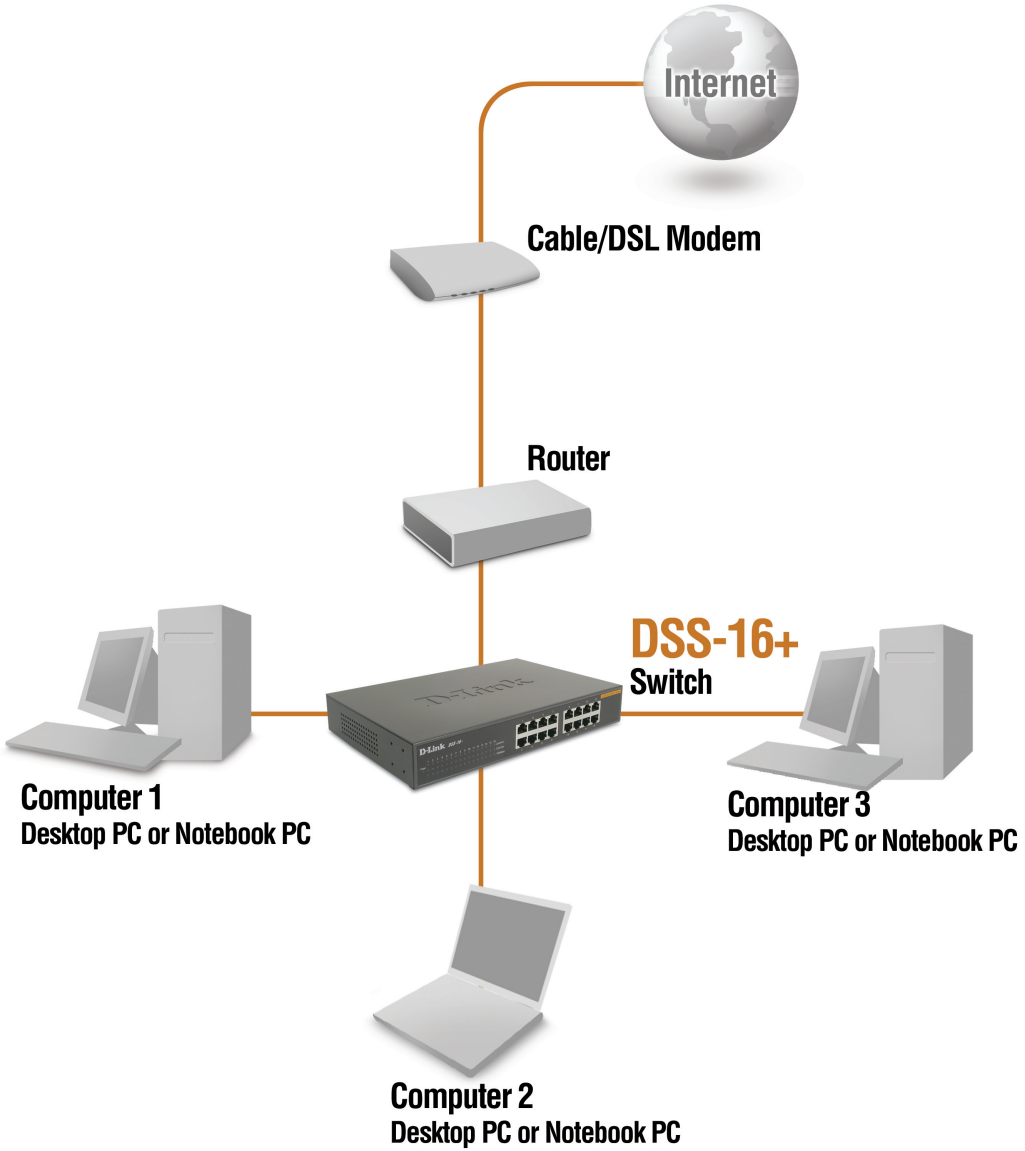


Then, use screws provided with the equipment rack to mount each switch in the rack.



Installation

This section will explain how to connect Ethernet devices to your new D-Link switch and how to mount the switch.



Connecting the Switch

PC to DSS-16+

A computer can be connected to the DSS-16+ via a two-pair Category 3, 4, 5 UTP/STP Straight-Through or Crossover cable. A computer equipped with a RJ-45 10/100Mbps port can be connected to any of the sixteen DSS-16+ ports. The LED indicators for the PC connection depend on the capability of the computer's Ethernet card. If the LED indicators are not lit after making a proper connection, check the computer's Ethernet card, the cable, and the DSS-16+'s conditions and connections.

Hub/Switch to DSS-16+

A hub (10 or 100BASE-TX) can be connected to the DSS-16+ via a two-pair Category 3, 4, or 5 UTP/STP Straight-Through or Crossover cable. For 100Mbps operation a Category 5 cable must be used. The connection is accomplished from any port of the hub to any port of the DSS-16+.

DSS-16+ to Other Devices

The DSS-16+ can be connected to another switch or other devices (routers, bridges, etc.) via a two-pair Category 3, 4, 5 UTP/STP Straight-Through or Crossover cable. A Category 5 (or higher) cable must be used for 100Mbps operation. The connection can be accomplished from any (MDI-X) port on the DSS-16+ to any of the 10Mbps or 100Mbps (MDI-X) ports on another switch or other devices.

Port Speed & Duplex Mode

After plugging the selected cable to a specific port, the system uses auto-negotiation to determine the transmission mode, auto-detecting the network speed (10Mbps or 100Mbps) for any new twisted-pair connection.

If the attached device does not support auto-negotiation or has auto-negotiation disabled, an auto-sensing process is initiated to select the speed and half-duplex mode is selected.

Troubleshooting

1. Why can´t I share my Internet connection to multiple computers when using my D-Link DSS-16+ switch?

If you are connecting directly to a Cable or DSL modem, you will need a router to “share” your Internet connection or a computer using ICS (Internet Connection Sharing) or Proxy. Switches and hubs do not allow you to share a single IP address to multiple computers.

Another alternative is to contact your ISP and purchase extra IP addresses for each additional computer.

2. Does the DSS-16+ switch have an uplink port?

The DSS-16+ has Auto-MDI ports which automatically sense the type of cable being used (e.g. Straight-through or Crossover) and adjust themselves accordingly to pass data over the network.

3. What is the maximum length of Category 3, 4 or 5 twisted pair cable that can be used between the DSS-16+ and other devices such as routers, switches, computers, etc.?

The maximum length of Category 3, 4 or 5 twisted pair cable that can be used between computers and other devices on a network is 100 meters or about 328 feet. Keep in mind that this is a theoretical limit. Usually, you will want to keep the distance between devices well below the limit.

4. What is Store-and-Forward switching?

Store-and-Forward switching will wait until the entire frame has arrived prior to forwarding it. This method stores the entire frame in memory. Once the frame is in memory, the switch checks the destination address, source address, and the CRC. If no errors are present, the frame is forwarded to the appropriate port. This process ensures that the destination network is not affected by corrupted or truncated frames.

Technical Specifications

DSS-16+ Specifications

Standards:	IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3 Nway Auto-negotiation IEEE 802.3x Flow Control IEEE 802.1p Quality of Service (QoS)	
Data Transfer Rate:	Ethernet:	10Mbps (half duplex) 20Mbps (full-duplex)
	Fast Ethernet:	100Mbps (half duplex) 200Mbps (full- duplex)
Network Cables:	10BASE-T:	2-pair UTP Cat. 3,4,5 (100 m), EIA/TIA- 568 100-ohm STP (100 m)
	100BASE-TX:	2-pair UTP Cat. 5 (100 m), EIA/TIA-568 100-ohm STP (100 m)
Switch Fabric:	3.2Gbps	
Packet Buffer Memory:	1.25Mb	
Number of Ports:	16 x 10/100Mbps auto-negotiation, auto MDI-X ports	
Power Consumption:	6.0 watts (Max.)	
Temperature:	Operating: 0-40° C (32-104° F)	
Humidity:	Operating: 10%~90% RH, Non-Condensing, Storage: 5%~95% RH, Non-Condensing	

Dimensions (W x H x D):	(WxHxD) 280mm x 44mm x 180mm (11.02in x 1.73in x 7.09in)
Emissions:	FCC Class A, CE Class A, VCCI Class A
Safety:	cUL
Weight:	4.3 lbs.
Transmission Method:	Store-and-forward
Packet Forwarding:	148,800pps per port (100BASE-TX half-duplex) 14,880pps per port (10BASE-T half-duplex)
MAC Address Learning:	Automatic update

RJ-45 Pin Specifications

The following table shows the standard RJ-45 receptacle/connector and their pin assignments.

RJ-45 Connector pin assignment

Contact	Media Direct Interface Signal
1	Rx +(receive)
2	Rx - (receive)
3	Tx + (transmit)
4	Not used
5	Not used
6	Tx - (transmit)
7	Not used
8	Not used

Contacting Technical Support

D-Link provides free technical support for customers within the United States and within Canada for the duration of the warranty period on this product. U.S. and Canadian customers can contact D-Link technical support through our web site or by phone.

Before you contact technical support, please have the following ready:

- Model number of the product (e.g. DSS-16+)
- Hardware Revision (located on the label on the bottom of the switch (e.g. rev A1))
- Serial Number (s/n number located on the label on the bottom of the switch).

You can find software updates and user documentation on the D-Link website as well as frequently asked questions and answers to technical issues.

For customers within the United States:

Phone Support:
(877) 453-5465
24 hours a day, seven days a week.

Internet Support:
http://support.dlink.com
support@dlink.com

For customers within Canada:

Phone Support:
(800) 361-5265
Monday to Friday 7:30am to 9:00pm EST

Internet Support:
http://support.dlink.ca
email:support@dlink.ca

Warranty

Subject to the terms and conditions set forth herein, D-Link Systems, Inc. (“D-Link”) provides this Limited Warranty:

- Only to the person or entity that originally purchased the product from D-Link or its authorized reseller or distributor, and
- Only for products purchased and delivered within the fifty states of the United States, the District of Columbia, U.S. Possessions or Protectorates, U.S. Military Installations, or addresses with an APO or FPO.

Limited Warranty:

D-Link warrants that the hardware portion of the D-Link product described below (“Hardware”) will be free from material defects in workmanship and materials under normal use from the date of original retail purchase of the product, for the period set forth below (“Warranty Period”), except as otherwise stated herein.

- Hardware (excluding power supplies and fans): Five (5) year
- Power supplies and fans: One (1) year
- Free Technical Support - Basic Installation: Ninety (90) days

The customer’s sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link’s option, to repair or replace the defective Hardware during the Warranty Period at no charge to the original owner or to refund the actual purchase price paid. Any repair or replacement will be rendered by D-Link at an Authorized D-Link Service Office. The replacement hardware need not be new or have an identical make, model or part. D-Link may, at its option, replace the defective Hardware or any part thereof with any reconditioned product that D-Link reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. Repaired or replacement hardware will be warranted for the remainder of the original Warranty Period or ninety (90) days, whichever is longer, and is subject to the same limitations and exclusions. If a material defect is incapable of correction, or if D-Link determines that it is not practical to repair or replace the defective Hardware, the actual price paid by the original purchaser for the defective Hardware will be refunded by D-Link upon return to D-Link of the defective Hardware. All Hardware or part thereof that is replaced by D-Link, or for which the purchase price is refunded, shall become the property of D-Link upon replacement or refund.

Limited Software Warranty:

D-Link warrants that the software portion of the product ("Software") will substantially conform to D-Link's then current functional specifications for the Software, as set forth in the applicable documentation, from the date of original retail purchase of the Software for a period of ninety (90) days ("Software Warranty Period"), provided that the Software is properly installed on approved hardware and operated as contemplated in its documentation. D-Link further warrants that, during the Software Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects. The customer's sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link's option, to replace the non-conforming Software (or defective media) with software that substantially conforms to D-Link's functional specifications for the Software or to refund the portion of the actual purchase price paid that is attributable to the Software. Except as otherwise agreed by DLink in writing, the replacement Software is provided only to the original licensee, and is subject to the terms and conditions of the license granted by D-Link for the Software. Replacement Software will be warranted for the remainder of the original Warranty Period and is subject to the same limitations and exclusions. If a material non-conformance is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to replace the non-conforming Software, the price paid by the original licensee for the non-conforming Software will be refunded by D-Link; provided that the non-conforming Software (and all copies thereof) is first returned to D-Link. The license granted respecting any Software for which a refund is given automatically terminates.

Non-Applicability of Warranty:

The Limited Warranty provided hereunder for Hardware and Software portions of D-Link's products will not be applied to and does not cover any refurbished product and any product purchased through the inventory clearance or liquidation sale or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product and in that case, the product is being sold "As-Is" without any warranty whatsoever including, without limitation, the Limited Warranty as described herein, notwithstanding anything stated herein to the contrary.

Submitting A Claim:

The customer shall return the product to the original purchase point based on its return policy. In case the return policy period has expired and the product is within warranty, the customer shall submit a claim to D-Link as outlined below:

- The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow DLink to confirm the same, along with proof of purchase of the product (such as a copy of the dated purchase invoice for the product) if the product is not registered.

- The customer must obtain a Case ID Number from D-Link Technical Support at 1-877-453-5465, who will attempt to assist the customer in resolving any suspected defects with the product. If the product is considered defective, the customer must obtain a Return Material Authorization ("RMA") number by completing the RMA form and entering the assigned Case ID Number at https://rma.dlink.com/.

- After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. Do not include any manuals or accessories in the shipping package. DLink will only replace the defective portion of the product and will not ship back any accessories.

- The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery ("COD") is allowed. Products sent COD will either be rejected by D-Link or become the property of D-Link. Products shall be fully insured by the customer and shipped to D-Link Systems, Inc., 17595 Mt. Herrmann, Fountain Valley, CA 92708. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via UPS Ground or any common carrier selected by D-Link. Return shipping charges shall be prepaid by D-Link if you use an address in the United States, otherwise we will ship the product to you freight collect. Expedited shipping is available upon request and provided shipping charges are prepaid by the customer. D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link's reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.

What Is Not Covered:

The Limited Warranty provided herein by D-Link does not cover:
Products that, in D-Link's judgment, have been subjected to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tampered with, defaced or removed; Initial installation, installation and removal of the product for repair, and shipping costs; Operational adjustments covered in the operating manual for the product, and normal maintenance; Damage that occurs in shipment, due to act of God, failures due to power surge, and cosmetic damage; Any hardware, software, firmware or other products or services provided by anyone other than D-Link; and Products that have been purchased from inventory clearance or liquidation sales or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product.

While necessary maintenance or repairs on your Product can be performed by any company, we recommend that you use only an Authorized D-Link Service Office. Improper or incorrectly performed maintenance or repair voids this Limited Warranty.

Disclaimer of Other Warranties:

EXCEPT FOR THE LIMITED WARRANTY SPECIFIED HEREIN, THE PRODUCT IS PROVIDED "AS-IS" WITHOUT ANY WARRANTY OF ANY KIND WHATSOEVER INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IF ANY IMPLIED WARRANTY CANNOT BE DISCLAIMED IN ANY TERRITORY WHERE A PRODUCT IS SOLD, THE DURATION OF SUCH IMPLIED WARRANTY SHALL BE LIMITED TO THE DURATION OF THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. EXCEPT AS EXPRESSLY COVERED UNDER THE LIMITED WARRANTY PROVIDED HEREIN, THE ENTIRE RISK AS TO THE QUALITY, SELECTION AND PERFORMANCE OF THE PRODUCT IS WITH THE PURCHASER OF THE PRODUCT.

Limitation of Liability:

TO THE MAXIMUM EXTENT PERMITTED BY LAW, D-LINK IS NOT LIABLE UNDER ANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER LEGAL OR EQUITABLE THEORY FOR ANY LOSS OF USE OF THE PRODUCT, INCONVENIENCE OR DAMAGES OF ANY CHARACTER, WHETHER DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF GOODWILL, LOSS OF REVENUE OR PROFIT, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, FAILURE OF OTHER EQUIPMENT OR COMPUTER PROGRAMS TO WHICH D-LINK'S PRODUCT IS CONNECTED WITH, LOSS OF INFORMATION OR DATA CONTAINED IN, STORED ON, OR INTEGRATED WITH ANY PRODUCT RETURNED TO D-LINK FOR WARRANTY SERVICE) RESULTING FROM THE USE OF THE PRODUCT, RELATING TO WARRANTY SERVICE, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY, EVEN IF D-LINK HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE SOLE REMEDY FOR A BREACH OF THE FOREGOING LIMITED WARRANTY IS REPAIR, REPLACEMENT OR REFUND OF THE DEFECTIVE OR NONCONFORMING PRODUCT. THE MAXIMUM LIABILITY OF D-LINK UNDER THIS WARRANTY IS LIMITED TO THE PURCHASE PRICE OF THE PRODUCT COVERED BY THE WARRANTY. THE FOREGOING EXPRESS WRITTEN WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ANY OTHER WARRANTIES OR REMEDIES, EXPRESS, IMPLIED OR STATUTORY.

Governing Law:

This Limited Warranty shall be governed by the laws of the State of California. Some states do not allow exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the foregoing limitations and exclusions may not apply. This Limited Warranty provides specific legal rights and you may also have other rights which vary from state to state.

Trademarks:

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Copyright Statement:

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CE Mark Warning:

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

FCC Statement:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For detailed warranty information applicable to products purchased outside the United States, please contact the corresponding local D-Link office.

Registration

Product registration is entirely voluntary and failure to complete or return this form will not diminish your warranty rights.

Version 7.0
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